DISTRIBUTED SCHEDULER FOR PACKET SWITCHES AND
PASSIVE OPTICAL NETWORKS

ABSTRACT

Scheduling system and method for scheduling data packets from an input port

5    $(1_1...1_i)$ to an output port $(3_1...3_o)$, comprising virtual output queues $(6_1...6_n)$ being arranged to store data packets from the input port $(1_1...1_i)$ destined for a specific output port $(3_1...3_o)$. The scheduling system comprises a scheduling tree (10) having a plurality of comparison layers, each comparison layer being arranged for pair-wise comparing requests received from the associated virtual

10   output queues $(6_1...6_n)$ in parallel and

sending the request with a higher priority to a higher level comparison layer until a single request remains, the single request indicating the virtual output queue $(6_1...6_n)$ scheduled to send its data packet to the associated output port $(3_1...3_o)$. 6y

15   [Fig. 3]